

8th Civil Support Team



LTC Charlie Beatty
Colorado National Guard



Why does the 8th CST Exist?

- To help protect the People and Property of the State of Colorado
- To serve YOU by assisting an Incident Commander in making immediate life safety decisions





CST Mission Statement

The 8th CST supports Civil Authorities at a domestic CBRNE incident or natural or man-made disaster site by:

IDENTIFYING CBRN agents/substances,

ASSESSING current and projected consequences,

ADVISING on response measures, and

ASSISTING with appropriate requests for additional state and federal support.



Who makes up a CST?

- Full Time National Guard team with 24-7 response mission for CBRN incidents, natural, and man-made disasters.
- Assigned to the Governor for State response in support of a local Incident Commander
- May be employed in Colorado or Nationwide. Can serve in State or Federal Status, or as a reserve or reinforcing element for other WMD-CSTs
- Designed to gather presumptive analysis for an Incident Commander

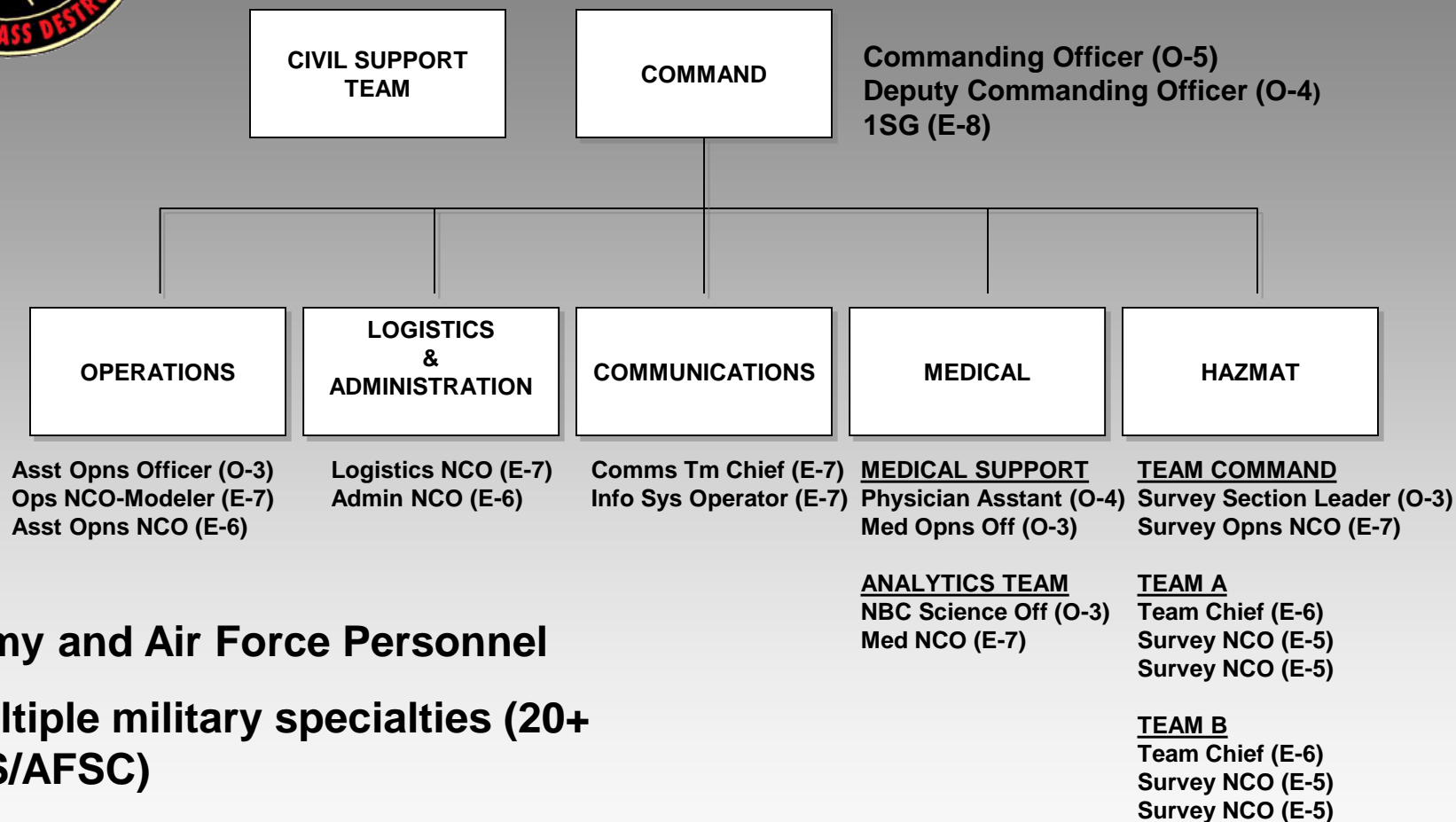


What We Are

- Meet standard HazMat Tech certification w/ additional specialization in Chemical, Biological, Radiological, Nuclear (CBRN) and explosives (fabrication, not render safe)
- Able to make entries in unknown environments
- Team Members are trained by national subject matter experts
 - NFA, DOE, DOD, EPA, FBI
- Nationally funded for operational and training missions
- 24-7 response: 30-45 min (+ travel time) during normal work hours, 2 hours during off hours, airmobile (fixed and rotary wing)
- Built to act in a supporting role within the IC system – fully NIMS compatible
- Compliant with civil protective standards, i.e., NIOSH, OSHA, NFPA



Unit Organization



- **Army and Air Force Personnel**
- **Multiple military specialties (20+ MOS/AFSC)**
- **7 Officers, 15 NCOs**
- **8 vehicles/4 trailers (full-team)**



CST Mission Profiles

- ***Standard Mission:*** Full-team or strike team response to suspected or actual use of WMD, intentional/un-intentional release of CBRN material
- ***Hazard Assessment Team (HAT):*** Pre staged team presence at significant event to respond to potential threats and de-escalate non-threats.
- ***Non-WMD/CBRN Support Mission:*** Select capabilities tailored to support IC requirements at natural/man-made disasters
- ***Training Mission:*** Individual or team level training support, Full Scale Exercise development and execution for external agencies



Immediate Support / Disaster Response

- **Expeditionary Support**
 - Rapid Response
 - Robust Communications
 - Operators capable of reconnaissance in hazardous environments
 - Photo/video/voice link for follow on elements
- **Support of long term hazmat area screening objectives (Iowa floods, Space Shuttle Crash, WTC site)**
- **Support of long term public health/decon missions (Katrina, Sandy)**
- **Support interagency communications and remote/austere communications (Katrina, CO 2012 wildfires/floods, WTC site)**



Training Opportunities

- **Advantages**
 - No cost
 - HSEEP compliance (more lead time to ensure forms completed, etc)
 - Actual instrument readings, possible live rad/chem/bio options
- **Training with others**
 - Joint operations
 - Can use additional CSTs or NG assets as evaluators or participants
 - AARs/reports available to partners
- **Training for others**
 - Prepare scenarios/schedule venues/provide Observer/Controllers
 - Objective-driven based on agency needs
 - Best to coordinate with local/county EM to ensure maximum value
 - Examples: IABTI Region II, Denver Int'l Airport, Colo. Spgs FD/PD/Olympic Training Center



CST Equipment and Capabilities

- **Advanced Echelon Vehicle (ADVON)**
- **Unified Command Suite (UCS)**
- **Analytical Laboratory System (ALS)**
- **Tactical Operations Center (TOC)**
- **Hazard Modeling**
- **Radiological, Biological and Chemical Identification, Detection and Personal Protective Equipment**
- **Medical Surveillance and Emergency Treatment Systems**
- **Decontamination Equipment**



ADVON Vehicle



- F-450 Chassis
- Full communications suite (non-secure)
- Wireless network and laptops for IC
- Iridium Satellite phones
- Incident Command Radio Interface (ICRI) for cross patching
- On-the-road internet
- Setup time: 3 minutes



UCS (Unified Command Suite)

Communications Capabilities

- HF,VHF, UHF, FM Transceivers
- VHF/UHF Base Stations
- UHF, VHF, 800 MHz Motorola
- ACU-1000, Cross Patches radios
- Portable SATCOM (Voice/Data)
- Commercial Ku Band (T-1 Speed)
- STE (Secure Telephone Equipment)
- 2000 Server (DNS,DHCP,SUS)
- Windows 2000 & XP Workstations
- Non-secure & Secure (Email & Internet)
- Printer/Fax/Copier/Scanner
- Video Teleconference capability
- Wireless network
- Real-time downrange video camera





ALS (Analytical Laboratory System)

Chemical

- FTIR Microscopy – organic
- Gas Chromatography/Mass Spectrometry
- Polarized Light Microscopy – inorganic



Biological

- Detect DNA
 - Fluorescence Microscopy
 - Polymerase Chain Reaction (PCR)
- Detect toxin/ bacterial/ viral proteins
 - Hand Held Assay (HHA)
 - Electrochemiluminescence (ECL) assay
- Class III Glove Box



Radiological

- Computer-based Radiological Spectrum analysis system
- Communications link to UCS





Survey Equipment

Radiation Detection Equipment

- Detects, measures radioactivity & identifies source materials and isotopes

Air Characterization Equipment

- Real-time qualitative analysis of chemical atmospheres

Other Detection Systems

- Digital X-ray system for package content ID
- Trace Explosive detection kit

Toxic Atmosphere Personal Protective Equipment

- Enables down-range operators to work in non flammable, hazardous atmospheres

Sample Collection Equipment

- Chemical, biological, & environmental samples are expertly collected & processed for the Analytical Laboratory System





Medical

- Responder Emergency Care
 - Equipment on hand for most types of emergencies
 - Equipment includes: Lifepak 12, Oxygen, Airway Management, IVF, Suction Unit, AED, Nebulizer
- Pharmaceutical Formulary
 - Compliment of medication for most acute illnesses
 - Antidotes and antibiotics for a wide variety of WMD agents
- Pre/Post Entry Screening
- CBRN Medical Advisory
- Coordination with Public Health, hospitals, MMRS, etc, to best id, direct, triage and treat victims





Requesting the CST

CST 720-272-4997

DEM 720-852-6600

8th CST (WMD)



Questions?

720-272-4997